



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

Dirk Kempthorne, Governor
Toni Hardesty, Director

February 28, 2006

Certified Mail No. 7005 1160 0000 1550 0658

Scott Clelland
Western Farm Service
473 Hankins Road South
Kimberly, ID 83341-5095

RE: Facility ID No. 051-00020, Western Farm Service, Roberts
Final Permit Letter

Dear Mr. Clelland:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) Number P-050503 for Western Farm Service, Roberts facility, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on May 16, 2005. This permit is effective immediately. This permit does not release Western Farm Service from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Idaho Falls Regional Office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Bill Rogers at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer, Administrator
Air Quality Division

MB/SYC/sd

Permit No. P-050503

Enclosures



**Air Quality
PERMIT TO CONSTRUCT**

**State of Idaho
Department of Environmental Quality**

PERMIT No.: P-050503

FACILITY ID No.: 051-00020

AQCR: 61

CLASS: SM

SIC: 2874

ZONE: 12

UTM COORDINATE (km): 411.7, 4835.2

1. PERMITTEE

Western Farm Service, a Division of Agrium U.S., Inc.

2. PROJECT

Initial Permit to Construct – Roberts Facility

3. MAILING ADDRESS

473 Hankins Road South

CITY

Kimberly

STATE

ID

ZIP

83341-5095

4. FACILITY CONTACT

Scott Clelland

TITLE

SRD EH&S Manager

TELEPHONE

(208) 737-1007 or (208) 459-4601

5. RESPONSIBLE OFFICIAL

Scott Clelland

TITLE

SRD EH&S Manager

TELEPHONE

(208) 737-1007 or (208) 459-4601

6. EXACT PLANT LOCATION

272 North Bassett Road, Roberts, Idaho

COUNTY

Jefferson

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Agricultural retail services/ Fertilizer manufacturing

8. GENERAL CONDITIONS

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.


**TONI HARDESTY, DIRECTOR
DEPARTMENT OF ENVIRONMENTAL QUALITY**

DATE ISSUED: February 28 2006

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Acronyms, Units, and Chemical Nomenclature

AQCR	Air Quality Control Region
DEQ	Department of Environmental Quality
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
MMBtu/hr	million British thermal units per hour
O&M	Operations and Maintenance
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
PTC	permit to construct
SIC	Standard Industrial Classification
SM	synthetic minor
UTM	Universal Transverse Mercator

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-050503

Permittee:	Western Farm Service	Facility ID No. 051-00020	Date Issued:	February 28, 2006
Location:	Roberts, Idaho			

1. PERMIT TO CONSTRUCT SCOPE***Purpose***

- 1.1 This permit to construct (PTC) is the facility's initial permit. This PTC regulates emissions from Reactor No.1 (10-34-0 reactor) and Boiler No.1. The reactor and the boiler were constructed at the facility without first obtaining a PTC. The application for this PTC was submitted by the permittee pursuant to the February 15, 2005 Consent Order No. E-030014 to resolve certain regulatory violations alleged by DEQ.

Regulated Sources

Table 1.1 lists all sources of emissions regulated by this PTC.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control(s)
2	Reactor No.1 (10-34-0 reactor)	The wet scrubber (a packed bed) and the stainless-steel demister pads are part of the reactor design. While recovering the product and reducing the temperature, they also reduce the emissions.
3	Boiler No.1 (Propane-fired 3.35 MMBtu/hr boiler)	None

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2. REACTOR NO.1 (10-34-0 REACTOR)**2.1 Process Description**

The 10-34-0 reactor was custom made by Unocal in 1985. It replaced the facility's existing reactor. Superphosphoric acid (SPA), ammonia, and water are fed to the reactor at the rates of 1,500, 1,080, and 2,100 gallons per hour, respectively. 10-34-0 ammonium polyphosphate liquid fertilizer is generated at the rate of 2,800 gallons per hour.

2.2 Emissions Control Description

A wet scrubber (a packed bed) and stainless-steel demister pads are integral components of the reactor design. Their primary design function is to optimize the recovery of the liquid fertilizer. As the wet scrubber and the demister pads recover the liquid fertilizer, they also reduce the temperature of the liquid fertilizer and control air pollutant emissions exiting the reactor stack. A reduction in the post-reaction vapor temperature provides for condensation of liquid fertilizer to optimize fertilizer recovery in the off-gas stream.

Table 2.1 REACTOR NO.1 DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Reactor No.1 (10-34-0 reactor)	The wet scrubber (a packed bed) and the stainless-steel demister pads	Annular space at the top of the reactor with outer diameter of 10 feet and an inner diameter of 4 feet

Emissions Limits**2.3 Emissions Limit**

The PM₁₀ emissions from the reactor stack shall not exceed 1.9 tons per any consecutive 12-month period.

2.4 Opacity Limit

Emissions from the reactor stack, or any other stack, vent, or functionally equivalent opening associated with the reactor, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements**2.5 Annual Operating Hours Limit**

The permittee shall not operate the reactor more than 1,440 hours per any consecutive 12-month period. For the purposes of this permit, operate shall mean when liquid fertilizer is being produced or generated in the reactor.

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2.6 Operations and Maintenance Manual Requirements

Within 60 days of the permit issuance, the permittee shall have developed an O&M manual for the wet scrubber (a packed bed) and the stainless-steel demister pads using the manufacturer's specifications, operational experience, and information from source tests. The O&M manual shall describe the procedures that will be followed to comply with General Provision 2. The O&M manual shall contain at a minimum, the following information: a general description of the reactor, wet scrubber (a packed bed), and stainless-steel demister pads; a general discussion of the operation of the reactor; normal operating procedures; normal operating ranges; corrective action procedures when the reactor operates outside the normal operating ranges; and maintenance procedures and maintenance frequency. The O&M manual shall remain on site at all times and shall be made available to DEQ representatives upon request.

2.7 Reactor Operations

The permittee shall operate the reactor in accordance with the O&M manual.

Monitoring and Recordkeeping Requirements**2.8 Operating Hour Monitoring**

The permittee shall monitor and record the number of hours the reactor operates monthly. The annual hours of operation shall be determined by summing each monthly hours of operation over the previous consecutive 12-month period to demonstrate compliance with Permit Condition 2.5. Records of this information shall be kept on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

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3. BOILER NO.1 – PROPANE FIRED BOILER**3.1 Process Description**

The 3.35 MMBtu/hr propane-fired boiler is used during the production of the 10-34-0 ammonium polyphosphate liquid fertilizer and for other heating purposes at the facility.

3.2 Emissions Control Description

The emissions from the boiler are uncontrolled.

Table 3.1 BOILER NO.1 DESCRIPTION

Emissions Unit(s) / Process(es)	Emissions Control Device	Emissions Point
Boiler No.1	None	Boiler stack

Emissions Limits**3.3 Opacity Limit**

Emissions from the boiler stack, or any other stack, vent, or functionally equivalent opening associated with the boiler stack, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

3.4 Grain Loading Standard

The permittee shall not discharge PM to the atmosphere from any fuel-burning equipment in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas.

Operating Requirements**3.5 Fuel Type**

The boiler shall be fired by propane, exclusively.

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4. PERMIT TO CONSTRUCT GENERAL PROVISIONS

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
 - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
 - At reasonable times, to have access to and copy any records required to be kept under the terms and conditions of this permit, to inspect any monitoring methods required in this permit, and require stack compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state, or local law or regulation, except as specifically provided herein.
5. The permittee shall notify DEQ, in writing, of the required information for the following events within 5 working days after occurrence:
 - Initiation of Construction - Date
 - Completion/Cessation of Construction - Date
 - Actual Production Startup - Date
 - Initial Date of Achieving Maximum Production Rate - Production Rate and Date
6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

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All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

7. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.